



A Bridge to the Future



SAMS-Enhanced

(SAMS-E)



A Bridge to the Future



- **Enhances the Army's existing logistics systems: Unit Level Logistics System - Ground (ULLS-G) and Standard Army Maintenance System Level - 1 & 2 (SAMS-1&2)**
- **Replaces the ULLS-G DOS and SAMS-1&2 Windows NT operating systems with the Windows Graphical User Interface (GUI) operating system (2003/XP)**
- **Merges ULLS-G functionality into SAMS-1 (SAMS-1 Enhanced)**
- **Utilizes more efficient development tools: Visual Studio.Net, and C# programming language**



SAMS-Enhanced Benefits



A Bridge to the Future

- **Improves User Interface**
 - Minimal Training
 - On-line Tutorials
 - Computer Based Training
- **Improves Reliability and Security**
 - Data Accuracy and Integrity
 - Information Assurance & Vulnerability (IAVA) Compliance
- **Increases User Capabilities**
 - GUI Application Interfaces: e.g., Fed Forms
 - Export Capabilities for Queries, Printing, and Reports
 - Email Interface
 - Universal Serial Bus (USB) Ports



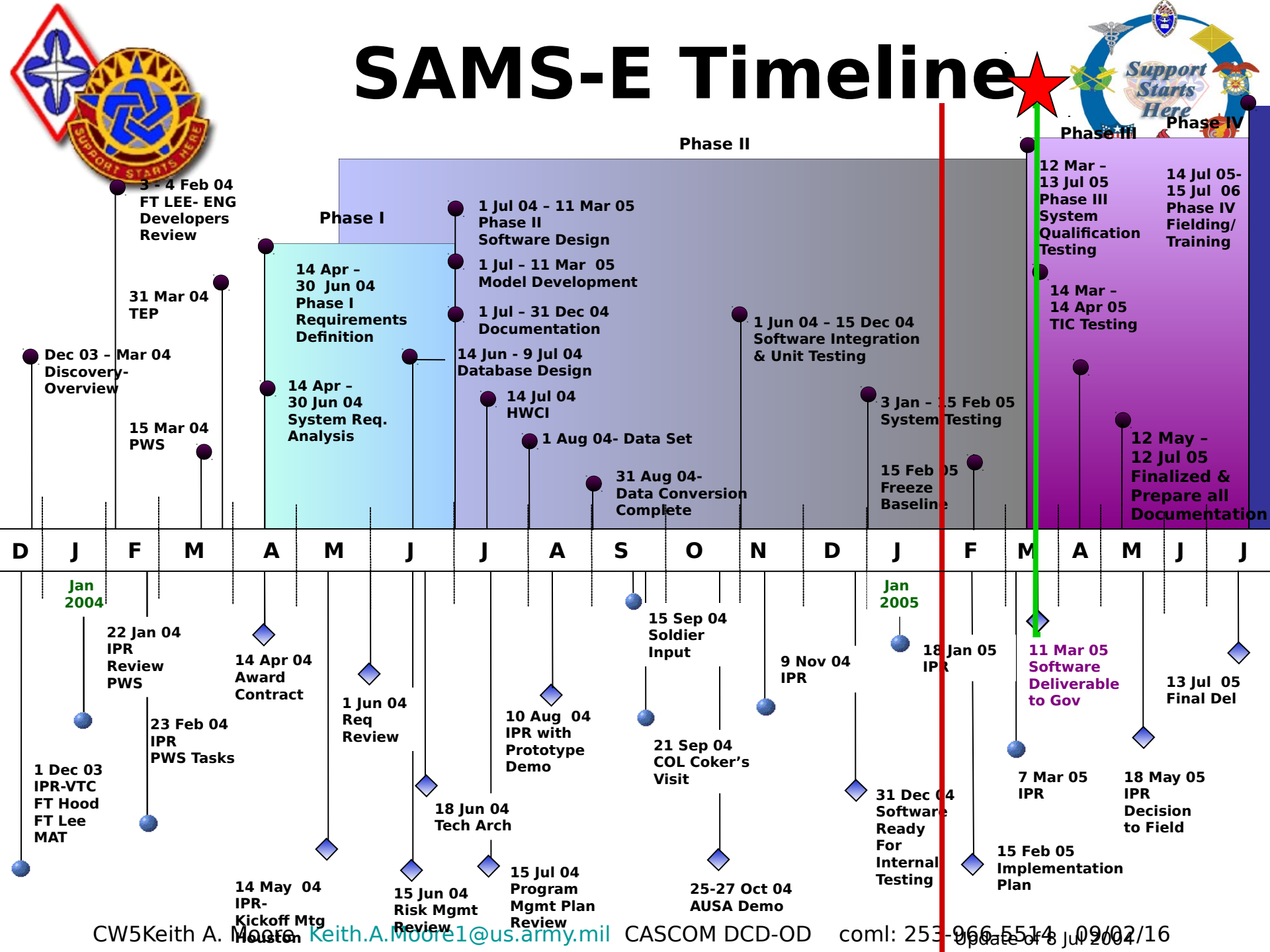
SAMS-Enhanced Features



- **Multiple User Capability**
- **Maintains Current Functionalities**
- **Total Cost of Ownership**
- **Two Level Maintenance**
- **Stand-Alone or Client/Server Configurations**
- **No Longer Hardware Unique**
- **Oracle Relational Database**



SAMS-E Timeline





SAMS-E Status



- **SAMS-1E Database Design**
- **SAMS-2 Database Design**
- **SAMS-1E Data Conversion**
- **SAMS-2 Data Conversion Complete**
- **SAMS-1E Programming**
- **SAMS-2 Programming**
- **SAMS-1E Interfaces**
- **SAMS-2 Interfaces**
- **SAMS-E Documentation**
- **SAMS-1E Training Materials**

100% Complete

100% Complete

In Internal Test

100% Test

100% Complete, InTest

50% Complete

70% Complete

0% Complete

70% Complete

50% Complete





SAMS-E Implementation Timeline



- September - January 2005
MACOMs for
schedules
 - January 2005
 - February 2005
Finalized
 - March 2005
Implementation Team
 - March 2005
 - May - June 2005
- PM ALIS Pre -Coordination with
Site Surveys, training
- Implementation Plan Draft Due
Order Hardware
- Implementation Schedule
- Team Composition
Locations
Training schedule
Hardware delivery schedule
- Begin Hiring/Training
- Begin Site Surveys
- Lead Site Verification Testing



SAMS-E Implementation Timeline



- **April - June 2005** **Site Surveys**
continue
- **18 July 2005** **First SAMS-1E & 2**
Fielding
- **18 July 2005** **Help Desk Online**
- **July 2005 - 15 July 2006** **SAMS-1E &**
2Fielding
- **16 July 2006** **SAMS-1E & 2**
Fielding **Mission**



Training Base Programs of Instruction



- **SAMS-2 POI Updates**

- 1 Lesson Plan- (ANCOC) Standard Army Maintenance System Level 2 (SAMS-2), 4 hours
- 1 Lesson Plan- RESERVE COMPONENT OFFICER ADVANCE COURSE PHASE 2, 4 hours

- **SAMS1/ULLS-G POI Updates**

- 92A-10 ULLS-G Program of Instruction 75 hours of Instruction
- Course 551-ASIB5, SAMS-1 Program of Instruction Outlines 108 hours of Instruction



SAMS-E Training



- **Computer Based Training**
 - 6 hours of SAMS-1E Demo Complete
 - 2 hours of SAMS-2
- **On line tutorials**
 - 25/33 Scenarios for SAMS-1E - Complete
 - 14 Scenarios for SAMS-2 under Development



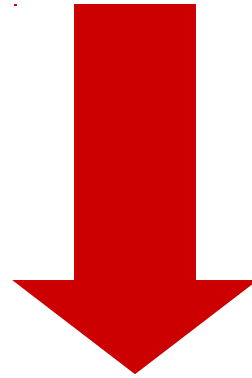
Publications

- **SAMS-1 Enhanced End User Manual**
 - Reviewed 6/12 Chapters
 - 2 more in Rough Draft
- **SAMS-2 End User Manual**
 - Reviewed Outline
- **SAMS-Enhanced Operations Guide**
 - Under Development



Implementation

The Challenge



*Approximately 12,000
SAMS/ULLS-G boxes in
12 months*



Implementation Teams

RECOMMENDATION



Minimum of Six Teams:

- Three CONUS teams
 - I Corps AO
 - III Corps AO
 - XVIII Corps AO
- Pacific team
- European team
- CENTCOM team



Implementation Team



- **Trainer** Develops and modifies lesson plans, coordinates training aids and student scheduling. Teaches the SAMS-1E Operators and SAMS-1E Managers Courses.
- **Conversion/Technical Lead** Supervises and coordinates Technical (CSSAMO) and Data conversion training. Supervises, troubleshoots and resolves data conversion issues. Serves as Technical training Instructor, teaches the data conversion and operations (CSSAMO) course. As needed, teaches the SAMS-2 or SAMS-1E Managers course
- **Team Leader/Senior Instructor** Coordinate facilities, equipment handoff, student scheduling, data conversion scheduling and follow on support. Teaches the SAMS-1E Managers, SAMS-2 and Commanders Courses



Implementation Courses



- **SAMS-1E Operators Course** --- 12 hours
Target = PLL, TAMMS Clerks, Dispatchers, SAMS-1 Clerks, Company and Battalion Motor Sergeants, DS NCOs
- **SAMS-1E Managers Course** --- 8 hours
Target = Battalion Motor Officers, Techs and Sergeants, Company Executive Officers, Shop Officers and Maintenance Warrants
- **SAMS-2 Course** --- 8 hours
Target = Battalion and Brigade Support Operations Staff, S-4, DMMC Staff
- **SAMS-E Commanders Course** --- 2 hours
Target = Battalion and Company Commanders, Battalion XO
- **SAMS-E Data Conversion and Operations Course**
---40 hours



Data Conversion Overview



Three Phase Process:

- ✓ **Pre- Conversion**
- ✓ **Conversion**
- ✓ **Post- Conversion**
- **Requires User & CSSAMO Participation**
- **Requires local policy decisions on Parameters, stockage criteria, locations, Work Centers, Shop Codes. . .**



Pre-Conversion



- **Site Survey**
- **Data Conversion Handbook**
 - **Pre-conversion check list**
 - **Procedures & TTP**
- **SAMS-1 Personnel Database**
 - **Data entry requirement**
- **ULLS/SAMS Data Extraction Program**
 - **1 Diskette**
 - **3-5 minutes to run**

Pre-Conversion



SAMS-1 Personnel XREF - [Personnel X-Ref]

File Edit Insert Records Window Help

SAMS-1 PERSONNEL XREF

- ☐ Add Personnel Records
- ☐ Edit/Delete Personnel Records
- ☐ Exit Application

Form View FLTR

PERS_XREF : Form

SAMS1ID: A0003 EMPLOYEEID: S8410 EMPLOYEE TYPE: MILITARY UIC: WCVXAA

LASTNAME: STEELE FIRSTNAME: JAMES MI: SSN: 555-22-2222 PAYGRADE: E4 MOS: 63W

BIRTHDATE: 8/22/1971 GENDER: M HEIGHT: 67 WEIGHT: 162 HAIRCOLOR: BLK EYECOLOR: BLU

DTEASSIGNED: 11/5/2003 LABORCODE: Vehicle Operation WORKCTR CODE: A SHP SHOPCODE: A COMMODITYCODE: Automotive

DELETE RECORD

Record: 1 of 27



Conversion

- **User brings Extracted Data Disks, SAMS-1 Personnel Database (SAMS-1 users only) & designated reports to Conversion Site**
- **Conversion Team runs the Conversion Program (loaded on Laptop), adds MMDF, which converts to an Oracle database format and produces a SAMS-1E CD.**

5-10 minutes to run

- **User loads the CD into his new SAMS-1E box**

5-10 minutes to run



Post Conversion



- **User uploads FEDLOG**
- **User updates Parameters as necessary**
- **User adds on-hand (OH) quantities for Bench Stock. (SAMS-1 only)**
- **Change Commanders Password**



Post Conversion cont'd



- User associates Work Center with Shop Stock (SAMS-1 only)
- User associates Shop Code with Bench Stock (SAMS-1 only)
- PLL items default convert to Work Center Org and Shop Code 0
- User compares legacy reports with Conversion Error Log and SAMS-1E data with assistance of Data Conversion Team. User makes any necessary manual corrections



Conversion Error Report



Common ULLS-G Errors

WO not converted
Cause= View ULLS
Action= manual
input

if valid

Work Order Created
Cause=non
reportable Item
Action= none

```
ulls-g_log.txt - Notepad
File Edit Format View Help
***** ULLS-G conversion started on 1/4/2005 4:39:42 PM *****
Copying files to Conversion directory 1/4/2005 4:39:42 PM

Error Listing for Conversion File: AWC SX001 - Unit Parameter 1/4/2005 4:39:42 PM
Error Listing for Conversion File: AWC MX001 - Equipment 1/4/2005 4:39:43 PM
Error Listing for Conversion File: AWC MX402 - work orders 1/4/2005 4:39:48 PM
Work order: BC4AA0400379 not converted due to deadline or fault record missing
Work order: BC4AA0400379 not converted due to deadline or fault record missing
Work order: BC4AA0400379 not converted due to deadline or fault record missing
Work order: BC4AA0400379 not converted due to deadline or fault record missing
Work order: BC4AA0400379 not converted due to deadline or fault record missing
Work order: BC4AA0400379 not converted due to deadline or fault record missing
Error Listing for Conversion File: AWC MX500 - Maintenance Faults 1/4/2005 4:41:04 PM
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400564 for: 010T
Work order created: BC4AA1400381 for: 021
Work order created: BC4AA1400382 for: 021
Work order created: BC4AA1400606 for: 117
Work order created: BC4AA1400600 for: 311
Work order created: BC4AA1400596 for: 312T
Work order created: BC4AA1400596 for: 312T
Work order created: BC4AA1400596 for: 312T
ORA-01400: cannot insert NULL into ("LOGMAINT"."MAINTENANCEFAULT"."SEQNBR")
```



Conversion Error Report

cont'd



Common SAMS-1 Error

Employee not converted
Cause= On SAMS Db not
SAMS-1E

Personnel Db. PCS?
Action= manual input
if valid

Notification Message
Action= none

```
Sams1_log.txt - Notepad
File Edit Format View Help
***** Sams-1 conversion started on 1/10/2005 8:51:58 AM *****
Copying files to Conversion directory 1/10/2005 8:51:58 AM

Error Listing for Conversion File: AHN01I - Customer Master 1/10/2005 8:51:58 AM
Error Listing for Conversion File: AHN18I - Personnel 1/10/2005 8:52:00 AM
Employee ID: S02 not in cross-reference. Not Converted.
Error Listing for Conversion File: AHN06I - Catalog 1/10/2005 8:52:01 AM
Error Listing for Conversion File: AHN02I - Maintenance Master 1/10/2005 8:52:04 AM
Error Listing for Conversion File: AHN03I - Work Orders 1/10/2005 8:53:48 AM
Error Listing for Conversion File: AHN05I - Work Order Parts 1/10/2005 8:53:50 AM
Error Listing for Conversion File: AHN04I - Work Order Tasks 1/10/2005 8:53:50 AM
Error Listing for Conversion File: AHN07I - Shop Supply 1/10/2005 8:53:51 AM
Error Listing for Conversion File: AHN10I - DCR 1/10/2005 8:53:52 AM
Error Listing for Conversion File: AHN14I - Bench Stock 1/10/2005 8:54:04 AM

Multiple storage locations combined to a single line for: 012562253
Multiple storage locations combined to a single line for: 011734643
Multiple storage locations combined to a single line for: 011648342
Multiple storage locations combined to a single line for: 013311207
Multiple storage locations combined to a single line for: 013311207
Error Listing for Conversion File: AHN19I - Recoverable Items 1/10/2005 8:54:05 AM

Error Listing for Conversion File: Updating DCR 1/10/2005 8:54:06 AM
Error Listing for Conversion File: Updating Inventory 1/10/2005 8:54:06 AM
Error Listing for Conversion File: Updating Inventory Locations 1/10/2005 8:54:06 AM
Error Listing for Conversion File: Updating Work Order Parts 1/10/2005 8:54:06 AM
Error Listing for Conversion File: Updating Work Centers 1/10/2005 8:54:06 AM
Error Listing for Conversion File: Updating Shop Codes 1/10/2005 8:54:06 AM
Error Listing for Conversion File: Updating Work Orders 1/10/2005 8:54:06 AM
Error Listing for Conversion File: Updating Audit Trail Columns 1/10/2005 8:54:06 AM

***** Sams-1 conversion ended on 1/10/2005 8:54:08 AM *****
```



SAMS-1E Work Center



Associate Parts with Work Center (SAMS-1E)

- 1 Double click on NIIN
2. Double click NIIN
3. Click on Work Center/Shop Sec
4. Click on desired Shop Code

Shop Supply Management - Update

NIIN 002317270 Noun GENERATOR EN UI EA UM EA

QTY OH 3 SSA DSG Advice Code Meas-QTY 1

QTY DI 0 APC Date Established 1/10/2005 Funds Available Y Yes

EC Stock Code Q Stockage Demand Supported

Location Management History

Record 1 of 1

Location	RD	RDP	Qty OH	Work Center	Shop Code	Auto Replenish
V4A4A	3	0	3			NO

Shop Supply Location Management - Update

NIIN 002317270

Location V4A4A

Work Center/Shop Section

Auto Replenish

RD 3

RDP 0

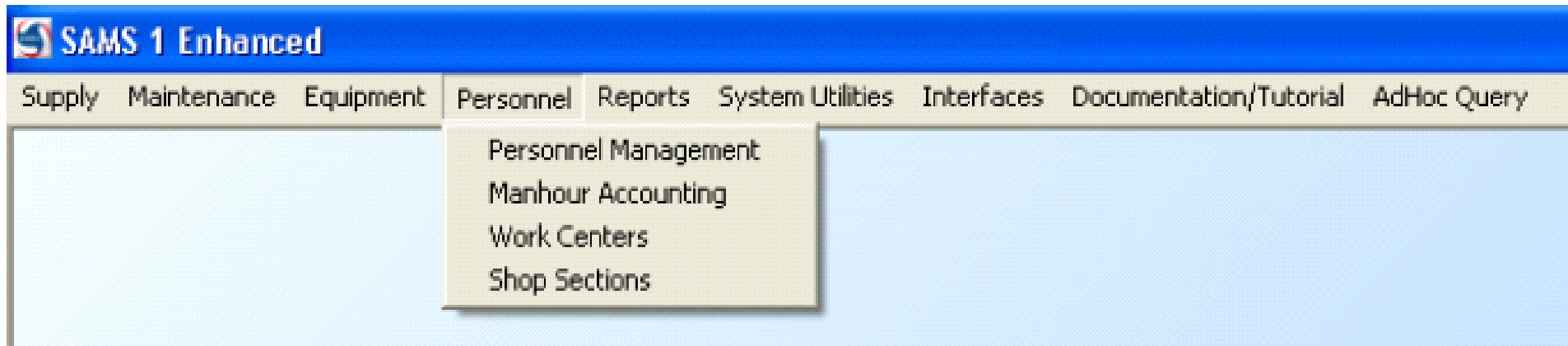
Qty On Hand 3

Code and Description List

Record 1 of 5

Wk Ctr Code	Wk Ctr Desc	Shop Cod	Shop Desc
AUTO	AUTO	A	A
ENGR	ENGR	E	E
FSHOP	FSHOP	F	F
SUPPL	SUPPL	S	S
WELD	WELD	W	W

User: Administrator Group: Administrator



- **Supply:** Manages the Document Control Register, the receipt process, shop supply, and catalog management.
- **Maintenance:** Manages the maintenance processes through work orders, ordering parts, and assigning personnel to tasks.
- **Equipment:** Manages dispatch, return, service schedules and fault management of equipment; provides for MMDL and component management.
- **Personnel:** Manages maintenance and operator personnel; contains their certifications, licenses, and costs.
- **Reports:** Contains standard U.S. Army maintenance forms and reports.
- **System Utilities:** Controls information about the unit parameters, communication methods and protocols, and controls SAMS-1E users and groups.
- **Interfaces:** Sets the processes for transacting Maintenance Master, catalog and AMSS updates, produces media for the transfer of information, and provides total cost of ownership data.
- **Documentation/Tutorial:** Accesses the **SAMS-1E End User Manual** online, CBT lessons and embedded tutorial.



Maintenance Master

NSN

Record 1 of 14285

NSN	Model	EIC	Nomeclature	LIN
100500072	M14A1RIFLE	4FB	RIFLE 7.62 AUTO	(null)
1005000739421	M16A1RIFLE	4FC	RIFLE 5.56MM	R94977
1005001067788	M15PISTOL	4LB	PSTL CALIBER .45 A	N96809
1005001338215	20MM M195	4TA	GUN AUTOMATIC 20 MILL	J96481
1005003229715	M2MG	4AG	MACH GUN 50 CAL	L91975
1005003229715	M2MG	4AG	MACH GUN 50 CAL	L91975
1005003229715	M2MG	4AG	MACH GUN 50 CAL	L91975
1005003229715	M2MG	4AG	MACH GUN 50 CAL	L91975

Cancel

SCREEN 2.4.1-1 IDENTIFIED AREAS OF THE DATA GRID SCREEN



- A** Title Bar (Maintenance Master): Shows current process name.
Actions: Double-click to maximize the window.
- B** Action Buttons (): If not greyed out, the user is authorized to perform the process associated with each button.
Actions: Click **Create**, **Update**, **Delete**, **View**, **Filter**. With **Update**, **Delete** and **View**, the button works with the selected record.
- C** Fast Filter (NSN): Provides a filter based on the first column of data.
Actions: Begin typing; each character filters the data further.
- D** Grid Label (Record 1 of 14285): Shows the row number of the current record and total records.
- E** Column Labels (NSN, Model, etc.): Sort column shows a Greek delta symbol with sort direction (**Δ** or **∇**).
Actions: Click to sort (up or down) by column; click and drag line to resize column. Column order cannot be changed.
- F** Data Grid cells (4FB, 4FC, etc.): Contain selected information about each record.
Actions: Click to select cell, click and drag to select cells; copy selected cells. Data in cells cannot be edited here.
- G** Record Rows: Pointer shows the selected row.
Actions: Click to select row; click and drag to select multiple rows.
- H** Scroll Bar Actions: Click shuttle and drag to new records.
Cancel button: Closes the window



Create, Update, Delete, Read, and Filter

Maintenance Process								
WO Number								
Record 4 of 279 (Filtered)								
WO Number	Admin No	Status	Status Date	WO Date	NSN	Nomenclature	c	WO Description
H0KB 0A200543	(nul)	A	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		COMSEC ALARM IN
H0KB 0A200545	(nul)	A	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		WILL NOT POWER U
H0KB 0A200542	(nul)	S	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		ALARM IN PROGRES
H0KB 0A100537	(nul)	A	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		COMSEC BIT FAILU
H0KB 0A200539	(nul)	B	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		FAILED COMSEC 3M
H0KB 0A200544	(nul)	A	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		WILL NOT POWER U
H0KB 0A200546	(nul)	2	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		WILL NOT POWER U
H0KB 0A200547	(nul)	2	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		WILL NOT POWER U
H0KB 0A200534	(nul)	S	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		FAILED COMSEC
H0KB 0A200533	(nul)	B	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		ALARM IN PROGRES
H0KB 0A200601	(nul)	S	9/20/2004	9/20/2004	5810013931973	COMPUTER DATA TRANSF		WILL NOT BOOT
H0KB 0A200557	HQ 805T	2	9/20/2004	9/20/2004	4940010253856	CL S TEAM PRE JT TR MT		NO WATER PRESSUR
H0KB 0A278092	C-16	U	9/20/2004	9/20/2004	2350012197577	CARRIER PERSONNEL		FUEL/COOLANT IN
H0KB 0A200551	(nul)	U	9/20/2004	9/20/2004	2350012197577	CARRIER PERSONNEL		ORDER PARTS
H0KB 0A200567	C-26	B	9/20/2004	9/20/2004	2350012197577	CARRIER PERSONNEL		SIDE TRACK ADJ B
H0KB 0A200265	(nul)	S	9/20/2004	9/20/2004	2350013696082	CARRIER 120MM MORT SP		ELEV. KNOB
H0KB 0A200552	FLT 36	U	9/20/2004	9/20/2004	2350013696082	CARRIER 120MM MORT SP		ORDER PARTS

SCREEN 4.1.0-1 MAINTENANCE PROCESS OVERVIEW WINDOW



WO Number	Admin No	INC	NSN	Nomenclature
BC4AA0400390	119	A	380501431165	TRK DUMP 20T (CCE)

WO Data | Equipment | Manhour / Costing | **History** | Tasks | Parts |



Record 1 of 3

	Date	Time	Status	Status Description	WO Type	Priority	NAR
▶	7/27/2004	11:11:00 AM	C	Awaiting shop	ORG	(null)	C
	8/12/2004	9:06:43 AM	M	Evacuated for repair and return	SUP	2	M
	8/16/2004	12:01:00 AM	M	Evacuated for repair and return	SUP	2	M

SCREEN 4.3.3-1 HISTORY TAB FOR VIEWING WO UPDATES



WO Number	Admin No	INC	NSN	Nomenclature	Serial No				
H0KB0A200551		A	2350012197577	CARRIER PERSONNEL	SJ121MU				
WO Data Equipment Manhour / Costing History Tasks Parts									
No record.									
Task No	Document Number	NIIN / Part No.	Priority	RDD	QTY RQD	QTY ISS	Status	ESD	Installed



Equipment Management

Admin No

Record 1 of 298

Admin No	Model	EIC	Prime EIC	Nomenclature	NSN	ERC
B3	M998					
B30	M1078					
B300	M1079					
B300T	M105A2					
B301	M1078					
B302W	DCC3539					
B305CT	SECMA2					
B30DCN1	M17A2					
B30DCN2	M17A2					
B30T	M105A2					
B330	M1078					
B330TG	PU803					
B331	M1088A1					
B331T	ASM189A					
B332	M1088A1					
B332T	ASM189A					
B333	M1078					
B334	M1078					
B334TG	PU802					
B335	M998					
B335R	VRC90F					
B350	M998					
B351	M1037					

Equipment - Filter

Admin No [ST]

Model [ST]

EIC [ST]

Prime EIC [ST]

Nomenclature [CT]

NSN [ST]

ERC [ST]

Class Code ... [EQ]

Clear

OK Cancel

SCREEN 2.5.5-1 EQUIPMENT MANAGEMENT DATA GRID FILTER FORM



Operators/Personnel

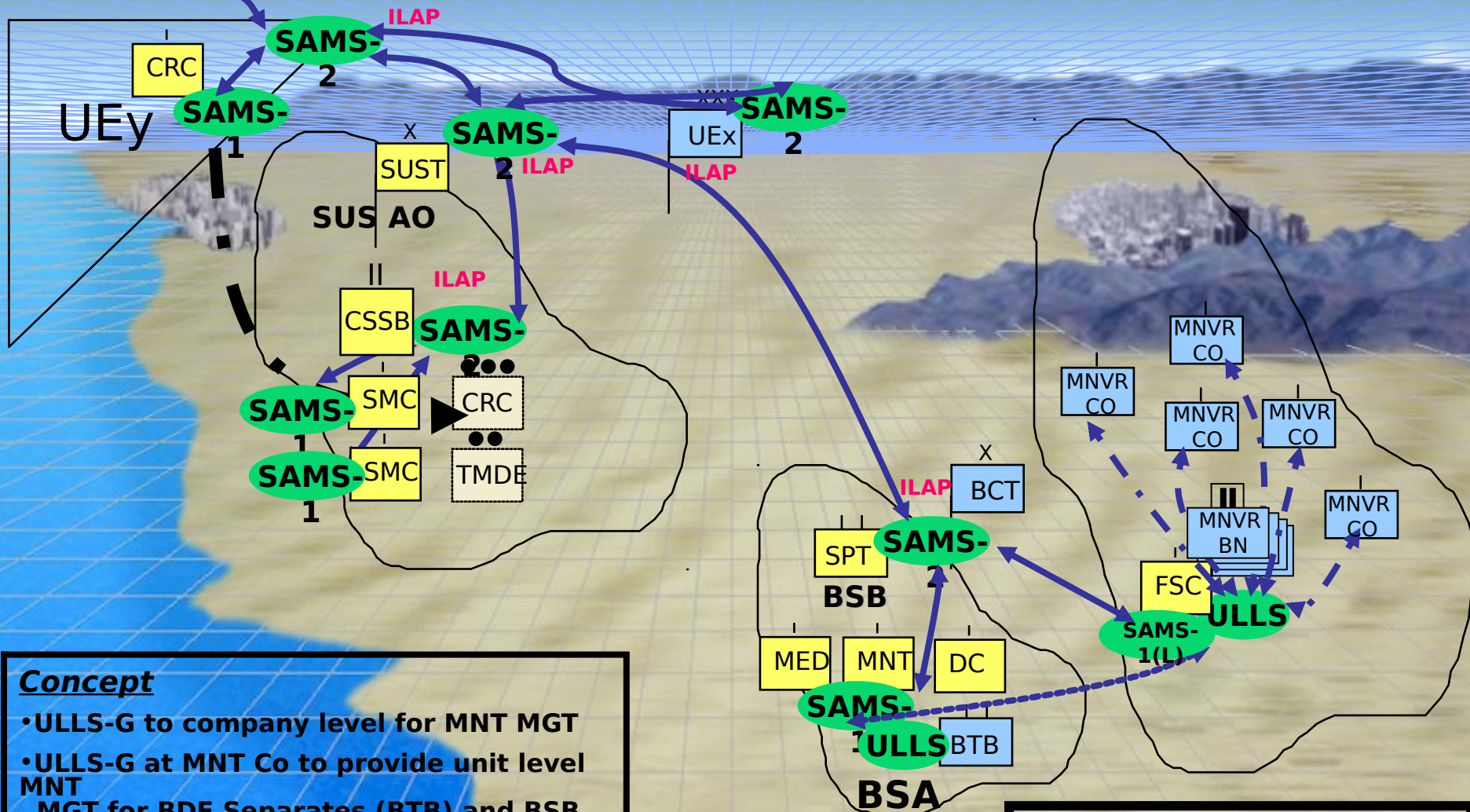
Employee ID

Operator/Personnel Details - Create

Record	Employee ID	Last Name	First Name	Initial
A				
A				
A				
A				

Employee Data | Equipment Class Qualifications | Restrictions/Actions | Operator Remarks

FIX



Concept

- ULLS-G to company level for MNT MGT
- ULLS-G at MNT Co to provide unit level MNT MGT for BDE Separates (BTB) and BSB
- SAMS-1 (L) at all FSC MNT PLTs allows for MNT Management within BNs
- SAMS-1 at all FMCs
- SAMS-2 at all FMCs



A Bridge to the Future

Questions